

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_1153**

**BURNSHIRE DAM**

Bay-wide Diadromous Tier	13
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	VA17108
State ID	1153
River Name	North Fork Shenandoah River
Dam Height (ft)	14
Dam Type	Gravity
Latitude	38.8768
Longitude	-78.4663
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Narrow Passage Creek-North Fo
HUC 10	Narrow Passage Creek-North Fo
HUC 8	North Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac



### Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	1.07	% Tree Cover in ARA of Upstream Network	41.58
% Natural Cover in Upstream Drainage Area	60.45	% Tree Cover in ARA of Downstream Network	53.47
% Forested in Upstream Drainage Area	59.97	% Herbaceous Cover in ARA of Upstream Network	44.78
% Agriculture in Upstream Drainage Area	33.34	% Herbaceous Cover in ARA of Downstream Network	34.94
% Natural Cover in ARA of Upstream Network	47.21	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	49.04	% Barren Cover in ARA of Downstream Network	0.24
% Forest Cover in ARA of Upstream Network	30.95	% Road Impervious in ARA of Upstream Network	1.4
% Forest Cover in ARA of Downstream Network	40.44	% Road Impervious in ARA of Downstream Network	2.38
% Agricultural Cover in ARA of Upstream Network	48.07	% Other Impervious in ARA of Upstream Network	1.11
% Agricultural Cover in ARA of Downstream Network	39.41	% Other Impervious in ARA of Downstream Network	2.74
% Impervious Surf in ARA of Upstream Network	0.38		
% Impervious Surf in ARA of Downstream Network	2.58		

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf)

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## Network, System Type and Condition

Functional Upstream Network (mi)	16.51	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	219.14	# Downstream Natural Barriers	1
Absolute Gain (mi)	16.51	# Downstream Hydropower Dams	2
# Size Classes in Total Network	3	# Downstream Dams with Passage	3
# Upstream Network Size Classes	2	# of Downstream Barriers	6
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	28.78		
% Conserved Land in 100m Buffer of Downstream Network	9.36		
Density of Crossings in Upstream Network Watershed (#/m2)	0.44		
Density of Crossings in Downstream Network Watershed (#/m2)	1.37		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0		

## Diadromous Fish

Downstream Alewife	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	0

## Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	28
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

## Stream Health

Chesapeake Bay Program Stream Health	FAIR
MD MBSS Benthic IBI Stream Health	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Very High
PA IBI Stream Health	N/A

Rare fish or mussel sp in HUC12	Yes
Rare fish or mussel in upstream or downstream functional network	Yes

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